

REPORT OF THE BOARD OF PUBLIC WORKS

The Board of Public Works oversees the Department of Public Works (DPW), which consists of the following programs: Engineering, Park & Highway, Recycling and Disposal, Management Services, Water and Sewer. All of these programs are funded from general tax revenues except for the Water Program and the Sewer Program which, as enterprise funds, are funded exclusively by users fees.

In March 2006, Michael D. Humphrys was elected to a three-year term, and David A. T. Donohue was elected to a one-year term on the Board of Public Works. In June 2006, Michael D. Humphrys was elected Chairman; David Donohue, Vice Chair; and William Charlton, Secretary of the Board of Public Works.

Engineering Division

The Engineering Division provides the Town of Wellesley with the highest level of professional engineering services. It is involved with almost every engineering-related task in the Town: preparation of engineering related reports and technical memoranda, preparation of detailed design plans and cost estimates, deed information, computer-aided design and drafting, Geographic Information System (GIS) implementation and maintenance, surveying, complete contract administration and project representation services for construction projects, and many other services. The Engineering Division uses state of the art technologies to perform these tasks, and to adjust to the ever-changing needs and priorities of the Department of Public Works and the Town of Wellesley. The following are highlights of the Division's work during fiscal year 2006.

Reconstruction of Washington Street (Wiswall Circle to Service Drive)

During FY06, the Engineering Division was responsible for the project management and construction administration for the reconstruction of Washington Street from Wiswall Circle to Service Drive. The work consisted of the complete reconstruction of the roadway including sidewalks on both sides of the street, removal and resetting of existing granite curb or installing new granite curbing, improvements to the existing drainage system, installation of ornamental street lights, brick paver crosswalks, traffic signal upgrades at the intersection to the Wellesley College Drive that included ornamental traffic signal poles and a video monitoring system in lieu of the traditional loop system, improved signage and new pavement markings.

Paolini Corporation of Newton, MA was the general contractor for the conduct of the work. The project was substantially completed in June 2006. The project is funded utilizing the Town's available Chapter 90 road construction funds.

Municipal Facilities Project

During FY06, the Department of Public Works, along with the Municipal Light Plant, continued its planning for a proposed Municipal Facilities Project. The project consists of the design and construction of a new MLP garage and warehouse, a new garage for Water and Sewer Division vehicles and Engineering Division vehicles, and a DPW Administration Building to house the Engineering Division, Water and Sewer Division, Management Services Division and the Director's Office. It was also decided that some Town Hall departments currently located on the lower level of the Town Hall would be relocating to the first floor of the proposed building.

Those departments are: Building Department, Zoning Board of Appeal, and the Planning Department. The Engineering Division was the lead division for this project in coordinating the appropriate consulting engineering and architectural services and preparing various layout and site plans for the proposed buildings. The proposed DPW Garage and Administration Building will be constructed adjacent to the existing Park/Highway Garage Building in the lower DPW yard. These facilities are required to provide adequate office and garage space for the various divisions, which currently work in inadequate facilities.

The Engineering Division was responsible for the preparation of the Project of Significant Impact (PSI) application and Municipal Systems Impact Analysis (MSIA) required to be submitted to the Planning Board for review and approval. The PSI process addresses off-site impacts the project will have on the Town's infrastructure such as water, sewer, and electric, refuse disposal, stormwater drainage and traffic. The Planning Board held two nights of hearings regarding the PSI application relative to infrastructure. The Board of Selectmen held one public hearing relative to the traffic component of the project. The hearings were closed and the Planning Board issued its PSI decision, which was subsequently recorded at the Norfolk County Registry of Deeds.

As FY06 concluded, work was progressing on the preparation of the Site Plan Approval and the Special Permit application to be submitted to the Zoning Board of Appeals. Work also continued on the development of architectural plans and specifications for the proposed municipal facilities. The process to be followed by the Municipal Facilities Project will be the traditional design-bid-build process that has been utilized for all of the recently constructed town buildings. The project is the responsibility of the Permanent Building Committee. The project schedule has been developed to obtain bids in the fall of 2006 and obtain funding for construction at a tentative Special Town Meeting to be scheduled for late fall 2006.

Linden Street Development Project

During FY06, the Engineering Division played a key role in the Town's review of the plans of Eastern Development for the proposed development of the 118-acre site that was the former F. Diehl and Son property located on both sides of Linden Street, between Hilltop Road and Everett Street. The proposed project includes the relocation of the existing Roche Brothers Supermarket to a new 50,000 square foot site on the north side of Linden Street, and an overall redevelopment first, of the north side of the area.

The Division's involvement consisted of the review of the Project of Significant Impact Municipal Systems Impact Analysis that is a requirement of the Planning Board. This process deals with the off-site impact of the proposed project on the town's infrastructure. In addition, the Division was also responsible for the review of the Site Plan Approval submittal required by the Zoning Board of Appeals. This process deals with specific on-site improvements and compliance with various town standards including zoning, parking and construction of utilities.

As FY06 concluded, representatives of the Engineering Division were participating in the inspection of site utilities to assure their construction in accordance with Town standards and were participating in project meetings conducted at the site in a pro-active approach to the conduct of the project.

Linden Street Reconstruction Project

The project locus is from Rockland Street to Weston Road. Improvements consist of reconstruction of the roadway and sidewalks to provide a continuous sidewalk on at least one side of the street for the entire corridor length, installation of ornamental streetlights and traffic signals, and appurtenances as required.

With the development of the former Diehl's site by Eastern Development, as part of the negotiated development agreement with the Town, Eastern Development will construct the Linden Street improvements within their project area from Everett Street to Hill Top Road. Eastern Development will also provide the funding to permit the Town to reconstruct the remaining portions of Linden Street. The estimated cost of the project is \$2,000,000. It is expected to begin in the spring of 2007, when Eastern Development will provide funding.

During FY06, the Engineering Division worked very closely with the Board of Selectmen, the Town's traffic engineering consultant, and the abutters to the easterly portion of Linden Street in the development of a design plan that was mutually satisfactory to all parties. Work toward this end included presentation of design options at various public hearings held by the Board of Selectmen, weekend meetings with neighborhood residents and site meetings with all parties. This effort has produced a plan for the easterly portion of Linden Street that meets the needs of the town and satisfies the concerns of the neighborhood.

Recycling and Disposal Facility Relocation of the Residential Metals and Tires Drop-Off Area Project

During FY06, the Engineering Division performed construction management services for the relocation of the Residential Metals and Tires Drop-Off Area Project at the Town's Recycling and Disposal Facility (RDF). The project included relocating the residential drop-off area for light iron, miscellaneous aluminum, appliances and tires to a more convenient and user-friendly location at the RDF. This should result in increased recovery weights for these recycled products and reduce handling and freight costs that are incurred by the Town of Wellesley.

A cement concrete block wall was installed to allow a depressed area for open-top containers and a freight trailer to be located, into which residents can place the recycled products. By having the containers and freight trailer at a lower elevation, it will be easier to load the recycled products. The Department of Public Works performed the work with their own work forces. Work started on the project in FY05 and was completed in FY06.

Recycling and Disposal Facility Operation and Maintenance Plan

During FY06, the Engineering Division worked closely with the Recycling and Disposal Facility (RDF) Division to prepare an As-Built Plan and an Operation and Maintenance Plan for the facility. The purpose of the Operation and Maintenance Plan is to ensure good solid waste management practices and to protect public health and safety and the environment.

The As-Built Plan includes identification of existing facilities on site, as well as traffic flow through the facility. The Operation & Maintenance Plan describes all facility operations including compliance with waste bans, and conformance to the requirements of 310 CMR

19.000, the Massachusetts Solid Waste Regulations, as amended, effective October 7, 2005. The plan identifies the following: RDF Operations, RDF Rules and Regulations, RDF Standard Operating Procedures, the Towns' Five-Year Residential Recycling Plan and the Waste Ban Compliance Plan.

The plan was submitted to the Massachusetts Department of Environmental Protection for review and approval. As FY06 concluded the Town was awaiting approval of the operation and maintenance plan from DEP.

Stormwater Management Program

During FY06, the Engineering Division continued the implementation of the Town's stormwater management program. In September 2003, the Town was issued its General Permit for the discharge of stormwater to the waterways of the US. The 2004 Annual Town Meeting approved a change to the Town Bylaw that permitted the Board of Public Works to promulgate and implement Municipal Stormwater Drainage System Regulations that govern the use of the Town's stormwater drainage system. These regulations were implemented in January 2005.

In FY06, the Engineering Division continued its program of placing information markers at selected catch basin inlets. The disks were installed as a public education tool to warn the public about dumping illegal material into the stormwater drainage system, the Town's brooks, streams, ponds and the Charles River. During the reconstruction of Washington Street from Wiswall Circle to Service Drive, similar cast iron markers were placed in the new concrete sidewalks at selected catch basin inlets.

Under the terms of its EPA General Permit, the town is required to adopt regulations to limit erosion and sedimentation of soil at construction sites. These regulations have been drafted and are currently under review by the town's environmental consultant. They are scheduled to be adopted during FY 07.

During FY06, the Engineering Division was responsible for seeking and obtaining a Section 319 Non-point Source Grant from the Massachusetts Department of Environmental Protection for the Cold Spring Brook Watershed Remediation Project. One component of this project was the dredging of the Town Hall Duck pond, which removed 1250 cubic yards of sediment from the pond. The DPW Park/Highway Division performed the work. Included in this portion of the project was the construction of a new outlet structure and a flow diversion pipe to provide a minimum flow to the otherwise stagnant easterly lobe of the pond. As FY06 concluded, the Duck Pond dredging project was approaching substantial completion.

As part of its stormwater management responsibilities, the Engineering Division prepared an annual report for submission to the US EPA in compliance with the Town's general permit under the Phase II NPDES regulations. This involves reporting on stormwater management activities performed over the past year and periodic revision to the Town's Notice of Intent, which serves as the basis for the Town's stormwater management program.

Infiltration/Inflow Reduction Program

During FY06, the Engineering Division provided project management and construction engineering services for the sewer rehabilitation project in the Wellesley Farms area. The project involves performing the cleaning and television inspection of approximately 38,144 linear feet of sewer laterals, testing of 7,106 pipe joints and the sealing of 2,272 pipe joints. The contractor for the project was National Water Main Cleaning Co. of Hyde Park, Massachusetts. FY06 was the third year of a three-year contract for the performance of this work. The infiltration/inflow reduction program will continue in FY 07 after a new contract is competitively bid.

The purpose of the project is to remove as much extraneous water (infiltration/inflow) from the sanitary sewer system in the Wellesley Farms area as possible. Infiltration is water associated with groundwater, while inflow is water associated with storm events. Water from these sources takes up capacity that might normally be allotted to sewage flow, with the effect of raising the Town's annual MWRA sewer assessment.

The total project cost was approximately \$210,364.

Utility Permit Program

The Engineering Division manages the Town's Street Occupancy Permit Program. This program regulates all utility and excavation work within the public way in accordance with the Rules and Specifications Regulating Street Excavations, Obstructions and Driveway Aprons, promulgated by the Board of Public Works. The comparative program statistics for FY04, FY05 and FY06 are:

	<u>FY 04</u>	<u>FY05</u>	<u>FY06</u>
Number of permits issued:	799	850	823
Number of permits completed as of June 30 th	299	501	456
Number of outstanding permits	500	349	367

The majority of outstanding permits are typically telephone or water line repairs that have not yet been permanently patched. Verizon routinely waits a year after excavation to permanently patch the street openings it makes. The number of outstanding permits at year's end also include those streets that require cold planning, followed by an overlay of the pavement surface and those permits where the contractor is required to delay the final patch for a period of 60 days to account for settlement of the excavation.

Park & Highway Division **Park & Tree**

The Park & Tree Unit of the Public Works Department is responsible for the year-round maintenance of the Town's parks, athletic fields, outdoor recreation facilities, conservation lands and public shade trees. The following list is a breakdown of the town properties routinely maintained by the division.

- 13 Playing Field sites totaling 47 acres of the Natural Resource Commission and School Department properties.
- 9 Playgrounds of Wellesley's Public Schools
- 4 Tennis Court Facilities (Hunnewell, Sprague, Schofield, Kelley) totaling 17 courts.
- 18 Parks and 5 Playgrounds of the Natural Resources Commission
- The grounds of the Town Hall, Police Station and the former Hills & Fells branch libraries
- 3 Linear Parks (Caroline Path, Cochituate Path and Fuller Brook Park)
- Maintenance of over 3,000 Public shade trees, along with vegetation management along town right of ways.
- 6 Conservation Reservations and the Wellesley Town Forest
- 10 Municipal Parking Lots of the Board of Selectmen
- 68 Traffic Islands
- 8 Ponds including annual mechanical and manual harvesting of invasive weeds at Longfellow, Rockridge and Morses Ponds
- The Recreation Department's Morses Pond Beach Facility.

During the fiscal year **2006**, the Park & Tree Unit also completed the following tasks and capital improvements:

- Upgraded the Hardy School Playground with an ADA approved surface composed of engineered playground woodchips, along with improving existing surfaces at all town playgrounds.
- Completed renovation of Kelly #1 & Kelly #3 baseball infield and backstop areas.
- Planted and maintained 110 new public shade trees town-wide with funding provided by the Natural Resources Commission and other various capital project funds and donations.
- Completed phase III of Landscape Master Plan that included new ornamental fencing, pillars and lights at the west end of Clock Tower Park. The work was funded in cooperation with the Wellesley Garden Club, the Natural Resources Commission, and the Community Preservation Act Committee.
- Completed landscape improvements to traffic Islands at Dover & Washington, Hunnewell & Oakland, Standish & Priscilla, Washington & Walnut and Saunders Terrace.
- Completed landscape improvements to the Brookside Community Gardens
- In response to the West Nile Virus, assisted the Middlesex Mosquito Control and the Wellesley Heath Department with treating over 3,100 catch basins with larvicide to help reduce the mosquito population in the town.

Park & Highway Division **Highway**

The Highway Division is responsible for the maintenance and repair of all Town roads, street signs, sidewalks, and all surface and subsurface drainage systems. Maintenance includes the cleaning of streets, drains, catch basins, brooks, and culverts. The resurfacing program maintains the structure of streets through crack sealing and resurfacing. During the winter, roads and sidewalks are kept safe for travel through the winter maintenance program, which includes salting, sanding, plowing and snow removal. The Sign Shop maintains all of the street signs and parking meters through the replacement of worn or damaged signs and meters and installation of new street and traffic control signs and meters. Highway also provides a wide range of

construction and maintenance services, including carpentry and masonry, to every Town department.

New Street Sign Project

Phase Four of a Five Phase program, developed for the purpose of upgrading street name signs, was completed. The Highway Meter and Sign Shop replaced approximately 182 street signs and posts.

Winter of 2005-2006

The winter of 2005-2006 had less snow precipitation than normal.

The total snow accumulation measured at the Highway Division facility for the winter of 2005-2006 was 41.50 inches. The DPW responded to a total of 15 storms. Four of the 15 storms required the attention of snowplowing crews. The remainder of the storms was treated with a combination of sand, salt and calcium. Responding to storms resulted in the use of 384.70 tons of sand, 2,005.65 tons of salt, and 10,615 gallons of liquid calcium chloride. Snow removal operations were carried out on two occasions.

Monthly Snow Accumulation

Winter 2005-2006

November	Trace	February	17.25"
December	16"	March	Trace
January	8.25"	April	Trace

FY06 Street Resurfacing

The following streets were resurfaced in fiscal year 2006: Hillside Road, Oakland Street (Washington St to Rte 9), Waban Street, Abbott Street, Woodlawn Avenue, Woodlawn Oval, Longfellow Road, Fiske Road, Prospect Street, Damien Road, River Street, School Street, Fuller Road, Crest Road, Howe Street, Sprague Road, Westerly Street, and Everett Street.

Due to a technical problem at the bituminous concrete plant of our contractor, several of the streets that were paved failed over the winter. After testing the paving, using a private engineering firm, we negotiated with the contractor to mill and repave all of the failed streets at the expense of the contractor during FY07.

Duck Pond Restoration Project

The Highway Program with the help the Park Program performed the majority of the work for the Duck Pond Restoration Project. This project included the dewatering of the pond, dredging of the pond, installation of a 36" by-pass pipe, installation of a weir and the installation of a new outlet structure.

FY06 Sidewalk Activities

- Removed and reconstructed sidewalk on Croton Street from Glen Road to Farms Station parking lot.
- Realigned the intersection of Croton St at Glen Cross St and Hillside Rd
- Removed and reconstructed sidewalk on Walnut Street from the Warren Building to the intersection of Washington Street

Recycling and Disposal Facility Revenue Enhancement Project

The Highway Program completed a new Metal Recycling Area. The project involved removing approximately 1200 cubic yards of material and the placement of 248 concrete blocks. The project has since been completed in FY06 and, according to last year's plan, all sidewalks, container pads, asphalt parking, and loading areas are finished and fully functional. All necessary signage for the project has also been installed.

HIGHWAY**Comparative Statistics****FY05****FY06*****Street Resurfacing & Cracksealing***

Bituminous concrete resurfacing (public ways)	3.82 mi.	4.16 mi.
Bituminous concrete resurfacing (private ways)	--	--

Streets cracksealed	4.22 mi	4.3 mi.
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Curbing

Granite curbing	180 lf	60 lf*
Bituminous concrete curbing	480 lf	850 lf
Sidewalks resurfaced	1,600 lf	2,080 lf
New sidewalk construction	3,140 lf	-- lf
Sidewalks reconstructed		1,575 lf

Guardrail fencing

Highway steel guardrail fencing installed	--	--
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Signs & Markings (replaced, renewed or new)

Street signs	225	222
Regulatory signs	100	100
Sign Posts	290	300

Parking Meters

Maintain Meters – replace batteries, etc	740	750
New Cale units installed	1	--

Winter Maintenance

Snowstorms or severe weather conditions responded by DPW	27	14
Total snowfall, inches	93	40.24
Salt used for ice control on roads and walks, tons	4,320	2,006
Calcium chloride for ice control on roads, gallons	19,291	10,615
Sand used for ice control on roads and walks, tons	524	1,385
Sidewalks plowed each storm, miles	56	56

Highway Maintenance Inventory

Streets, miles	110	110
Sidewalk, miles	118	118
Curbing, miles	78	78
Fencing, miles	6	6
Culverts, miles	75	75
Brooks & streams, miles	15	15
Catch basins, each	3,650	3,650

*Concrete Curbing

Recycling and Disposal Facility

The Recycling and Disposal Facility (RDF) is located at 169 Great Plain Avenue (Route 135). This 88-acre facility is open 6 days a week. The hours of operation are: Monday, Tuesday and Wednesday 7:00 AM to 12:00 PM. Thursday and Friday, 7:00 AM to 3:45 PM and Saturday, 7:00 AM to 4:45 PM. The facility is closed on Sunday.

The solid waste management strategy utilized by the RDF is the "3 R's" diversion method. Waste that cannot be diverted from the waste stream via **Reduction, Reuse, or Recycling** is transported to a State-approved disposal facility. All materials are processed in an environmentally, operationally and financially sound method.

Reduction:

Source reduction is the first step in managing the Town's waste. It is a simple concept to describe but difficult to quantify the results. To assist, the Massachusetts' Department of Environmental Protection provided the RDF with "Junk Mail Reduction Kits", which includes information on how to remove oneself from mailing lists and a "Non-Toxic Products" brochure with a listing of environmentally friendly products that can be used at home.

Reuse:

Reuse is the next component in the Town's solid waste management strategy and the RDF has a few areas for residents to take items that others no longer need.

The most visible and popular of these areas is the Reusables Area (Take-It-Or-Leave-It). The area was closed July 1, 2005 because of budget cuts. Friends of Recycling Inc. a community based non-profit organization, made up of Wellesley residents dedicated to helping the Town's recycling program, organized a volunteer effort to operate and manage the area. In early September, the area re-opened with over 100 volunteers. The RDF staff and volunteers have successfully worked together to keep the area open.

The Book Exchange is also a very popular area in the facility. It is not uncommon to see residents relaxing and enjoying a good book, or just browsing through the many different types of books. Surplus books that are not taken are shipped free of charge to third world countries for reuse at libraries and schools. The Town's benefit is the avoided disposal costs (estimated at \$5800 a year) and the fact that we are doing our part in helping to improve the world's literacy rate. The RDF has taken a leading role with other Massachusetts communities by assisting and helping to coordinate shipments.

The Earth Products Area gives residents another opportunity to take something back home with them. Brush, leaves and grass clippings are dropped off and processed on site. In May of 2006 a new trommel screener was delivered. This high production screener with a stacking conveyor will help ensure a high quality product will be produced and sold for premium money. Also, another benefit will be the improved cost effectiveness of a reduced handling yard waste operation. When available, screened compost is offered to Wellesley residents at no charge by the shovelful.

The RDF continues to work with the State's Executive Office of Health and Human Services' Soldier's Home in Chelsea Massachusetts. They are in dire need of used medical equipment for needy veterans. In FY06 a total of 72 crutches and canes were received and donated to this

worthy cause. Wheelchairs and walkers were also collected and donated. A permanent location near the used clothing was set up in April 2006.

Recycling:

Recycling eliminates the financial and environmental costs of landfilling waste and can generate revenues that go back into the Town's General Fund. A major component to the success of the RDF operation is the Lindemann Baler. This is a high-density baler that produces an export quality bale, thus enabling the RDF to market to upper level worldwide markets that are typically accessible only to high volume private companies. In order to achieve the highest economic benefit for the Town, every pound of recyclable is inspected and/or sorted on a quality control conveyor. Contaminates are removed to ensure mill acceptance at a premium grade classification. The most important aspect of our marketing strategy is to eliminate the profit making middle companies or brokers. This enhances the Town's position to capitalize on the constant changing market conditions to maximize revenue. Another benefit of this strategy is that it allows us to have more control over the operation, and allows us to develop long-term relations with mill buyers.

Recycling Revenue and Cost Avoidance:

The following is compilation of all relative recycling statistics:

Product Sales Revenue:	\$326,875
Compost Sales:	3,124
Appliance Fees:	21,025
Commercial Yard Waste Fees*:	<u>28,824</u>
Total Recycling Benefit:	\$ 379,848

*Fees collected from commercial vendors for the disposal of leaves, grass clippings, brush and woodchips that ultimately decompose and is moved off site as compost.

Municipal Solid Waste:

In FY06, a total of 10,071 tons of municipal solid waste (MSW) was processed and hauled off-site to a disposal facility in Seneca Falls New York. The DPW is currently in the third year of a ten-year contract with Seneca Meadows Incorporated for the disposal of solid waste.

The Department of Environmental Protection will start to mandate the separation of Construction and Demolition Material (C&D) starting July 1, 2006. Asphalt pavement, bricks, concrete, metal and wood (treated and untreated wood) by law, must be separated out of the waste stream.

The Executive Office of Environmental Affairs (EOEA) and the Department of Environmental Protection (DEP) have issued a Solid Waste Master Plan, which describes strategies and policies for working toward the State's goals in the coming decade. These goals are to: 1) reduce the quantity and toxicity of our waste to the irreducible minimum, leaving as little waste as possible to be disposed; 2) dispose only residuals from recycling and other waste reduction efforts; and 3) ensure that waste handling facilities are environmentally sound.

The DEP has again expanded its regulatory requirements on all municipal and private waste disposal operations. We must inspect and conduct daily monitoring of all incoming commercial

waste and also perform random comprehensive inspections on commercial loads. The RDF has been visited by State Inspectors and it has been determined that the RDF is in compliance with all pertinent laws.

Sixteenth Annual Household Hazardous Products Collection Day:

A fundamental component in Wellesley's environmentally responsible approach to integrated solid waste management is the annual Household Hazardous Products Collection Day. This year the event was held on Sunday, May 7, 2006. A total of 490 residents participated in bringing in a total of 13.22 tons of hazardous material. All products were collected and removed from the RDF by licensed and trained technicians and chemists.

New Initiatives

Step Up! You should be hearing a lot in the coming months about the new Step Up! recycling initiative. This is an effort to encourage **all** residents to increase their participation in waste reduction, regardless of where they are today, in terms of how much and what they recycle. Envision a staircase of recyclable materials; a non-recycler would be at the bottom step and veteran recyclers who recycle certain items occupy the next few steps. If the non-recycler started to recycle just paper, that would be a step up. If a resident who now only recycles paper started to also recycle bottles and cans, that would be a step up. The top step is community education and outreach. If every household took a step up and started to recycle one more product line, we would reach our overall goal of five percent more recycling over the next five years. That's only one percent a year, however in order to reach this aggressive goal, every household will need to step up his or her efforts. Every resident can nudge us towards our goal by looking for one or two more items to recycle or remove from their trash. Recycling saves natural resources and makes the Town a lot of money.

The RDF picks up municipal recyclables and trash at most municipal buildings as well as the trash barrels on the sidewalk in the commercial areas in town. Recently, these routes were expanded to include the pick up of recyclables and trash at town hall and the main library whereby it proved the RDF was able to save the Town money.

RDF Comparative Statistics

All figures in tons unless otherwise noted

(A) Recyclables*	FY05	FY06	FY06 (Sales)
Newspaper	2311	2266	\$ 179,718
Cardboard	1052	1022	\$ 72,473
Glass: Clear	129	114	\$ 2,280
Brown	35	37	\$ 559
Green	176	188	N/A
Ferrous Metal	527	496	\$ 20,450
Non-Ferrous Metal	0	7	6,797
Aluminum Foil and Plates	4	1	\$ 134
Steel Cans	34	37	\$ 3,621
Refundable Containers	25	26	\$ 14,777

Plastics	81	123	\$ 25,166
Batteries (Automotive)	16	13	N/A
Waste Oil	17	11	N/A
Tires	13	17	N/A
Books	44	78	N/A
Textiles - Used Clothing	137	125	N/A
Paint	3	6	N/A
Hazardous Products	90	110	N/A
Miscellaneous	79	81	N/A
Mobile Phones	329 units	229 units	\$ 403
Eye Glasses	991 units	1241 units	N/A
Crutches & Canes	32 units	70 units	N/A
Ink Jet Cartridges	64 units	458 units	\$ 497
Electronic Media	806 lbs	1831 lbs	N/A

Program Totals	FY05	FY06	FY06 (Sales)
Residential and Municipal Recycling	3,608	3,624	**\$326,875
Commercial Recycling	1,165	1,135	incl. in Residential
Construction and Demolition	N/A	N/A	N/A
(A) Total Recyclables*	4,773	4,759	**\$326,875

*Unsold tonnage in inventory is not included in the above figures, actual tonnage may be slightly higher

** Recycling Sales Revenue indicates the amount of all recycled products sold, however, some of these monies may be received in FY07

RDF Comparative Statistics continued*All figures in tons unless otherwise noted*

(B) Transfer Haul	FY04	FY05	FY06
Residential	8,224	8,581	7,870
Municipal	460	330	427
Commercial	1,799	1,743	1,774
(B) Total Trash	10,483	10,654	10,071

(C) Yard Waste	FY04	FY05	FY06
Residential	8,310	7,151	6,941
Municipal	829	931	1,298
Commercial	549	558	479
(C) Total Yard Waste	9,688	8,640	8,718

All Waste Materials	FY04	FY05	FY06
Total Weight (A+B+C)	25,087	24,067	23,548

Revenue	FY04	FY05	FY06
Recycling Sales	\$ 321,606	\$ 340,040	\$ 326,875
Compost Sales	\$ 2,083	140	\$ 3,124
Appliance Fees	\$ 18,140	\$ 19,630	\$ 21,025
Earth Products Tipping Fees	\$ 30,401	\$ 32,942	\$ 28,824
Commercial MSW Tipping Fee	\$ 229,125	\$ 217,986	\$ 226,477
Total Revenue	\$ 601,355	\$ 610,738	\$ 606,325

Recycling Percentages

Residential and Commercial	FY04	FY05	FY06
Excluding yard waste	31.9%	30.9%	32.1%
Including yard waste	58.0%	55.7%	57.2%

Residential only	FY04	FY05	FY06
Excluding yard waste	30.1%	29.6%	31.5%
Including yard waste	59.0%	55.6%	57.3%

Per Capita Recycling

Residential only	FY04	FY05	FY06
Pounds Per Capita - excluding yard waste	266	271	272

Water & Sewer Division

The Water and Sewer Division is responsible for the operation and maintenance of the Town's water and sanitary sewer systems. Described herein are the Division's FY06 accomplishments.

Water Program

The Water Program is responsible for the operation and maintenance of the Town's wells, pump stations, water treatment facilities, water distribution and storage systems. The program provides a potable and reliable water supply for its users and for fire protection. Water conservation and water resource protection are important components of the program.

Wellesley's water system consists of seven wells, five well pump stations, three water treatment facilities, two booster pump stations, two storage facilities with a combined capacity of 6.3 million gallons, and 149 miles of distribution main. Wellesley's water is supplied from local wells and from the Massachusetts Water Resources Authority (MWRA). All water users connected to the system are metered.

We are pleased to report that the water quality of our supplies was in compliance with the Federal Safe Drinking Water Act throughout FY06.

Water Treatment Facilities:

The seven local wells pump into one of three water treatment facilities, which provide for corrosion control, iron and manganese removal, and disinfection. In FY06 the Division contracted with Woodard & Curran Engineers to install a variable speed drive on the backwash pump at the Wellesley Avenue Water Treatment Facility; the Division also replaced filter media (i.e. anthracite coal and greensand) at that facility.

Water Distribution:

During FY06 496 feet of six-inch diameter water main on Oakland Street, between Worcester Street and Grantland Road, was replaced by ten-inch diameter main. The two Maugus Hill water storage tanks were drained, cleaned and had circulation piping and valving installed to allow for the circulation of water within the tanks. This circulation system prevents the stratification, and hence prevents the excessive detention of water in the tanks.

Water Supply Protection:

We continue to monitor the contaminant plume of trichloroethylene in Needham. The Massachusetts Department of Environmental Protection (DEP) is overseeing the cleanup of this contamination including monitoring of the groundwater treatment system at Central Avenue in Needham. Throughout FY06 the Division continued monitoring observation wells in Rosemary Meadow and the Wellesley Avenue and Coughlin production wells as per our Management Action Plan. Throughout FY06 our monitoring showed no detection of plume contaminants.

Water Conservation:

Typically hot, dry summer weather causes the water demand to double due to lawn irrigation. Our public awareness program included the distribution of complimentary rain/sprinkler gauges to encourage less frequent lawn irrigation and weekly advertisements in the Wellesley Townsman newspaper, which gives notice of our current water conservation status. In FY06 weekly notices were printed in the Townsman from June to September to alert residents of the current conservation status. The highest status reached during the year was WATCH.

Our water conservation program is encouraging prudent lawn water practices. We continue to distribute complimentary rain/sprinkler gauges, in order to encourage no more than an inch of water (combined rain and sprinkler) on the lawn per week.

The peak day water pumpage for FY06 was 5.14 million gallons. The peak month pumpage was 129.4 million gallons. The total water pumped for FY06 was 1,122 million gallons. Of this total water pumped, 74 percent came from local wells and 26 percent from the MWRA.

Sewer Program

The Sewer Program is responsible for the operation and maintenance of Wellesley's sanitary sewer system, which includes 134 miles of collection lines and twenty-two lift stations. Sewage is delivered into the MWRA's regional sewerage collection system and is treated at the MWRA Wastewater Treatment Facilities at Deer Island near Boston Harbor.

MWRA Sewer Metering Program

A large portion of Wellesley's MWRA sewer assessment is based on the metered wastewater flows leaving the Town and entering the MWRA system. These measured flows are reported on a calendar basis, and are used to formulate the following fiscal year's assessment. The following is a comparison of the three most recent calendar-year wastewater flow statistics:

<u>Calendar Year</u>	<u>MWRA WASTEWATER Flow Measurements</u>	
	<u>Ave. Daily, MGD</u>	<u>Peak Monthly, MGD</u>
2003	4.84 (1.35%)	7.73 (1.54%)
2004	4.92 (1.34%)	6.46 (1.44%)
2005	4.48 (1.27%)	6.76 (1.42%)

The percentage of Wellesley's contribution to the total MWRA system flow is noted within the parentheses.

Sewer Rehabilitation:

In FY06 we contracted with National Water Main Company of Hyde Park, MA to conduct a ten-mile television inspection survey and about five miles of sewer system rehabilitation, which includes joint testing and sealing and manhole sealing. This program was managed by the Town's Engineering Division and is further discussed in the Engineering section of this report. The Sewer Division's long-term plan is to inspect and rehabilitate five miles of sewer main per year for the next several years.

Water & Sewer Funds Audit Reports

The certified public accounting firm of Powers and Sullivan, L.L.P has prepared the FY2006 Financial Reports of the Water and Sewer Funds. The audited financial statements for the Water and Sewer Funds are included at the back of this Annual Town Report.

Division Statistics

	<u>FY04</u>	<u>FY05</u>	<u>FY06</u>
Number of Water Accounts	11,204	11,368	11,663
Water Pumped from Local Wells, mg	864.64	870.38	828.19
Water Pumped from MWRA, mg	121.54	182.04	293.66
Total Water Pumped, mg	986.18	1,052.42	1,121.79
Peak-to-Average Day Water Demand	1.84	1.76	1.67
Total Water Billed, mg	830.95	896.23	923.99
New Meters Installed	317	388	349
Hydrants Replaced	N/A	21	15
Number of Sewer Accounts	8,003	8,053	8,133
Number of House Services Rodded	369	340	312
Feet of Sewer Main Rodded/Flushed	234,670	295,470	307,609